# *BRUHAT BANGALORE MAHANAGARA PALIKE*

## *YELAHANKA ZONE*

### *DIVISION: BYATARAYANAPURA*

### *SUB DIVISION: VIDYARANYAPURA*

***Name of Work:*** *Estimate for Improvements to Roads and Drains at Canara Bank Layout Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).*

***Job Code: 009-21-000002***
***PCode: P-2178***

***Estimated Cost Rs. 83.00 Lakhs***

# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

**Name of work:** **Estimate for Improvements to Roads and Drains at Canara Bank Layout Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).**

| 009-21-000002 | | P-2178 | | | | Est Cost Rs. | | 8300000.00 |
|---|---|---|---|---|---|---|---|---|
| **Sl No** | **Description of item** | **Unit** | **No** | **L** | **B** | **D** | **Qty** | **Rate** | **Amount** |
| 1 | KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 143 / Item No. 19.1, PWD SR 2018-19** | Cum | | | | | | | |
| | Drain Desliting | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2 | 160.00 | 0.45 | 0.45 | 64.80 | | |
| | 5th Main Road Canara Bank Layout | | 2 | 340.00 | 0.45 | 0.45 | 137.70 | | |
| | 6th Main Road Canara Bank Layout | | 2 | 126.00 | 0.45 | 0.45 | 51.03 | | |
| | 7th Main Road Canara Bank Layout | | 2 | 125.00 | 0.45 | 0.45 | 50.63 | | |
| | 8th Cross Canara Bank Layout | | 2 | 85.00 | 0.45 | 0.45 | 34.43 | | |
| | 6th Cross Canara Bank Layout | | 2 | 176.00 | 0.45 | 0.45 | 71.28 | | |
| | 5th Cross Canara Bank Layout | | 2 | 162.00 | 0.45 | 0.45 | 65.61 | | |
| | 4th Cross Canara Bank Layout | | 2 | 151.00 | 0.45 | 0.45 | 61.16 | | |
| | Berm cutting | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2 | 160.00 | 0.90 | 0.20 | 57.60 | | |
| | 5th Main Road Canara Bank Layout | | 2 | 340.00 | 0.90 | 0.20 | 122.40 | | |
| | 6th Main Road Canara Bank Layout | | 2 | 126.00 | 0.90 | 0.20 | 45.36 | | |
| | 7th Main Road Canara Bank Layout | | 2 | 125.00 | 0.90 | 0.20 | 45.00 | | |
| | 8th Cross Canara Bank Layout | | 2 | 85.00 | 0.90 | 0.20 | 30.60 | | |
| | 6th Cross Canara Bank Layout | | 2 | 176.00 | 0.90 | 0.20 | 63.36 | | |
| | 5th Cross Canara Bank Layout | | 2 | 162.00 | 0.90 | 0.20 | 58.32 | | |
| | 4th Cross Canara Bank Layout | | 2 | 151.00 | 0.90 | 0.20 | 54.36 | | |
| | Basic Rate | 130.00 | | | | | **1013.63** | 243.88 | **247203.00** |
| | Area Weightage @6% | 7.80 | | | | | | | |
| | **Total** | **137.80** | | | | | | | |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 68.00 | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08 | 38.08 | | | | | | | |
| | **Total** | **243.88** | | | | | | | |
| | | | | | | | | | |
| 2 | Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 27 / Item No. 5.33 PWD SR 2018-19** | Sqm | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2 | 160.00 | | 1.35 | 432.00 | | |
| | 5th Main Road Canara Bank Layout | | 2 | 340.00 | | 1.35 | 918.00 | | |
| | 6th Main Road Canara Bank Layout | | 2 | 126.00 | | 1.35 | 340.20 | | |
| | 7th Main Road Canara Bank Layout | | 2 | 125.00 | | 1.35 | 337.50 | | |
| | 8th Cross Canara Bank Layout | | 2 | 85.00 | | 1.35 | 229.50 | | |
| | 6th Cross Canara Bank Layout | | 2 | 176.00 | | 1.35 | 475.20 | | |
| | 5th Cross Canara Bank Layout | | 2 | 162.00 | | 1.35 | 437.40 | | |
| | 4th Cross Canara Bank Layout | | 2 | 151.00 | | 1.35 | 407.70 | | |
| | | | | | | | **3577.50** | | |
| | Consider 30% of the total qty | | | | | | 1073.25 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 105.00 | | | | | **1073.25** | 111.30 | **119453.00** |
| | Area Weightage @ 6% | 6.30 | | | | | | | |
| | **Total** | **111.30** | | | | | | | |
| | | | | | | | | | |
| 3 | Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete **Page No. 27 / Item No. 5.31.1 PWD SR 2018-19** | Sqm | | | | | | | |
| | Damaged Slabs 10% | | | Vide Item No. 2 | | | 112.69 | | |
| | Basic Rate | 700.00 | | | | | **112.69** | 742.00 | **83617.00** |
| | Area Weightage @ 6% | 42.00 | | | | | | | |
| | **Total** | **742.00** | | | | | | | |
| | | | | | | | | | |
| 4 | KSRRB M2100-10. Providing and laying **Plain cement concrete of mix 1:3:6 with with OPC cement @ 220kgs, with crushed 40mm** and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days complete as per specifications MORTH Specification No. 2100 **Item No. 27.18 Page No. 222, PWD SR 2018-19** | cum | | | | | | | |
| | Bed Concrete | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2x2 | 160.00 | 0.30 | 0.10 | 19.20 | | |
| | 5th Main Road Canara Bank Layout | | 2x2 | 340.00 | 0.30 | 0.10 | 40.80 | | |
| | 6th Main Road Canara Bank Layout | | 2x2 | 126.00 | 0.30 | 0.10 | 15.12 | | |
| | 7th Main Road Canara Bank Layout | | 2x2 | 125.00 | 0.30 | 0.10 | 15.00 | | |
| | 8th Cross Canara Bank Layout | | 2x2 | 85.00 | 0.30 | 0.10 | 10.20 | | |
| | 6th Cross Canara Bank Layout | | 2x2 | 176.00 | 0.30 | 0.10 | 21.12 | | |
| | 5th Cross Canara Bank Layout | | 2x2 | 162.00 | 0.30 | 0.10 | 19.44 | | |
| | 4th Cross Canara Bank Layout | | 2x2 | 151.00 | 0.30 | 0.10 | 18.12 | | |
| | | | | | | | **159.00** | 5421.90 | **862082.00** |
| | Basic Rate | 5115.00 | | | | | | | |
| | Area Weightage @ 6% | 306.90 | | | | | | | |
| | **Total** | **5421.90** | | | | | | | |
| | | | | | | | | | |
| 5 | KSRB 5-14 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 **Page No. 27 / Item No. 5.26.2, PWD SR 2018-19** | Sqm | | | | | | | |
| | For Flagging Course | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2x2 | 160.00 | | 0.40 | 256.00 | | |
| | 5th Main Road Canara Bank Layout | | 2x2 | 340.00 | | 0.40 | 544.00 | | |
| | 6th Main Road Canara Bank Layout | | 2x2 | 126.00 | | 0.40 | 201.60 | | |
| | 7th Main Road Canara Bank Layout | | 2x2 | 125.00 | | 0.40 | 200.00 | | |
| | 8th Cross Canara Bank Layout | | 2x2 | 85.00 | | 0.40 | 136.00 | | |
| | 6th Cross Canara Bank Layout | | 2x2 | 176.00 | | 0.40 | 281.60 | | |
| | 5th Cross Canara Bank Layout | | 2x2 | 162.00 | | 0.40 | 259.20 | | |
| | 4th Cross Canara Bank Layout | | 2x2 | 151.00 | | 0.40 | 241.60 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | **2120.00** | 979.44 | **2076413.00** |
| | Basic Rate | 924.00 | | | | | | | |
| | Area Weightage @ 6% | 55.44 | | | | | | | |
| | **Total** | **979.44** | | | | | | | |
| | | | | | | | | | |
| 6 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page. No. 255 / Item No.34.11 of PWD SR 2018-19** | cum | | | | | | | |
| | Bed Concrete | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2 | 60.00 | 0.45 | 0.10 | 5.40 | | |
| | 5th Main Road Canara Bank Layout | | 2 | 150.00 | 0.45 | 0.10 | 13.50 | | |
| | 6th Main Road Canara Bank Layout | | 2 | 65.00 | 0.45 | 0.10 | 5.85 | | |
| | 7th Main Road Canara Bank Layout | | 2 | 50.00 | 0.45 | 0.10 | 4.50 | | |
| | 8th Cross Canara Bank Layout | | 2 | 35.00 | 0.45 | 0.10 | 3.15 | | |
| | 6th Cross Canara Bank Layout | | 2 | 65.00 | 0.45 | 0.10 | 5.85 | | |
| | 5th Cross Canara Bank Layout | | 2 | 75.00 | 0.45 | 0.10 | 6.75 | | |
| | 4th Cross Canara Bank Layout | | 2 | 70.00 | 0.45 | 0.10 | 6.30 | | |
| | Coping Concrete | | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2x2 | 160.00 | 0.20 | 0.10 | 12.80 | | |
| | 5th Main Road Canara Bank Layout | | 2x2 | 340.00 | 0.20 | 0.10 | 27.20 | | |
| | 6th Main Road Canara Bank Layout | | 2x2 | 126.00 | 0.20 | 0.10 | 10.08 | | |
| | 7th Main Road Canara Bank Layout | | 2x2 | 125.00 | 0.20 | 0.10 | 10.00 | | |
| | 8th Cross Canara Bank Layout | | 2x2 | 85.00 | 0.20 | 0.10 | 6.80 | | |
| | 6th Cross Canara Bank Layout | | 2x2 | 176.00 | 0.20 | 0.10 | 14.08 | | |
| | 5th Cross Canara Bank Layout | | 2x2 | 162.00 | 0.20 | 0.10 | 12.96 | | |
| | 4th Cross Canara Bank Layout | | 2x2 | 151.00 | 0.20 | 0.10 | 12.08 | | |
| | | | | | | | **157.30** | 5599.98 | **880877.00** |
| | Basic Rate | 5283.00 | | | | | | | |
| | Area Weightage @ 6% | 316.98 | | | | | | | |
| | **Total** | **5599.98** | | | | | | | |
| | | | | | | | | | |
| 7 | Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate. | Sqm | | | | | | | |
| | 7th Cross Canara Bank Layout | | 2 | 100.00 | 0.90 | | 180.00 | | |
| | 5th Main Road Canara Bank Layout | | 2 | 250.00 | 0.90 | | 450.00 | | |
| | 6th Main Road Canara Bank Layout | | 2 | 100.00 | 0.90 | | 180.00 | | |
| | 7th Main Road Canara Bank Layout | | 2 | 51.00 | 0.90 | | 91.80 | | |
| | 8th Cross Canara Bank Layout | | 2 | 36.00 | 0.90 | | 64.80 | | |
| | 6th Cross Canara Bank Layout | | 2 | 65.00 | 0.90 | | 117.00 | | |
| | 5th Cross Canara Bank Layout | | 2 | 75.00 | 0.90 | | 135.00 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | 4th Cross Canara Bank Layout | | 2 | 70.00 | 0.90 | 97 | 126.00 | | |
| | | | | 54.60 | | | 1344.60 | 2337.00 | 3142330.00 |
| | | | | | | | 1315.62 | | 3075025 |
| | Sub Total | | | | | | | 7344.60 | 7410382.00 |
| | GST @ 12% | | | | | | | 88.1360 | 889246.00 |
| | Add for unforseen and rounding off | L/S | | | | | | 583.00 | 372.00 |
| | | | | | | | | Total | 8300000.00 |
| **Rupees Eighty Three Lakh(s) Only** | | | | | | | | | |

**Certificate:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2018-19.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore : 97

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
19/08

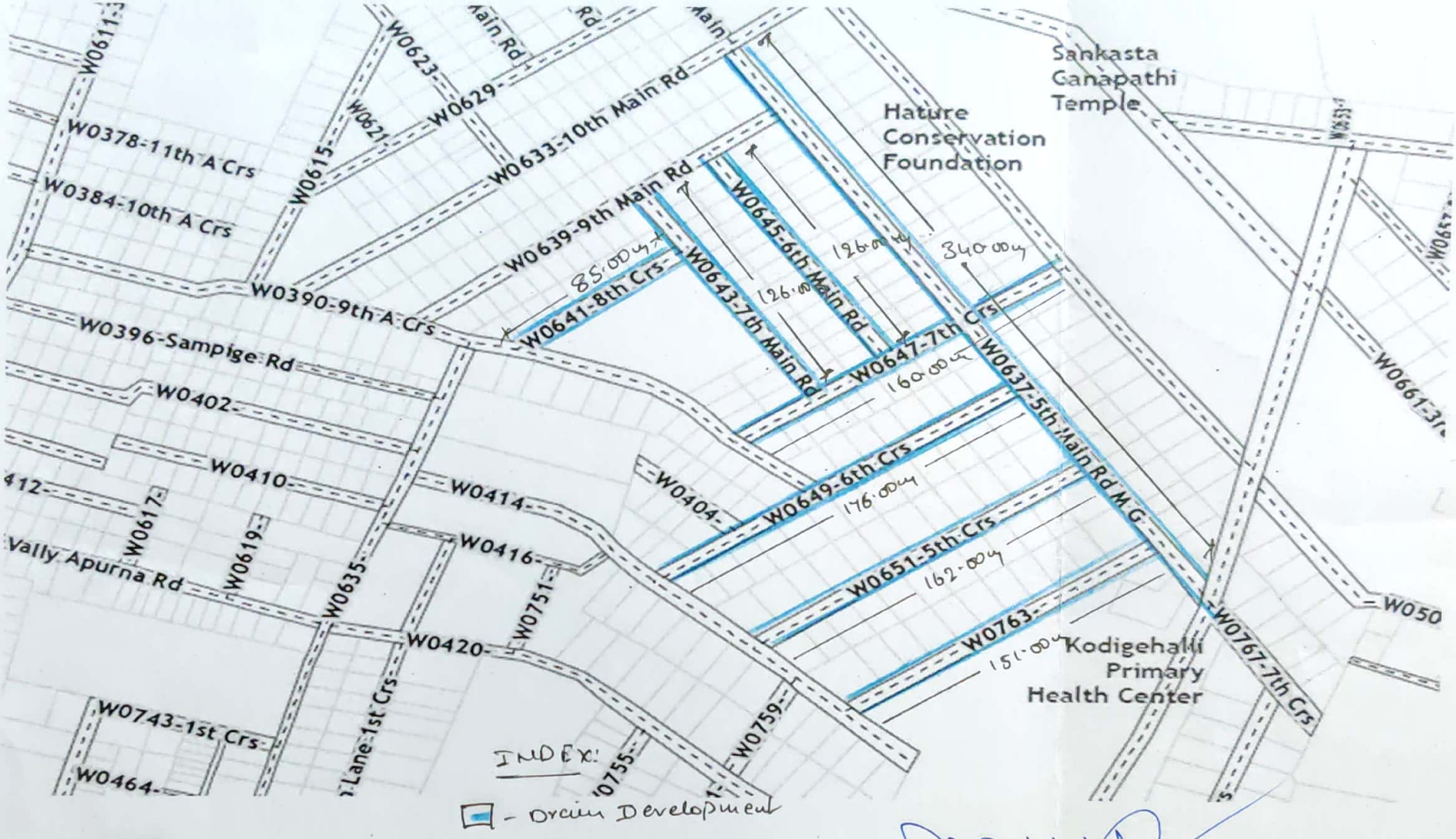
ADMINISTRATIVE APPROVAL
Accorded For Rs. 83.00 Lakhs
Head of A/c. P2178
Div. Ref. No. 36 Date 14/9/2020
AE 14/09
EE(BTP) 14/09

Technically sanctioned for Rs. 83,00,000/-
Rs in Words EIGHTY THREE LAKH ONLY
Under P 2178
Job Code No. 009-21-000002
Registered as SE(Y)/TS/ 23 /2021 subject to conditions contained in enclosed memo
No. 23 / 20-21 Dated: 15/9/2020
15/9/2020

# 152 - BYATARAYANAPURA AC
# WARD NAME : 9 - VIDYARANYAPURA

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

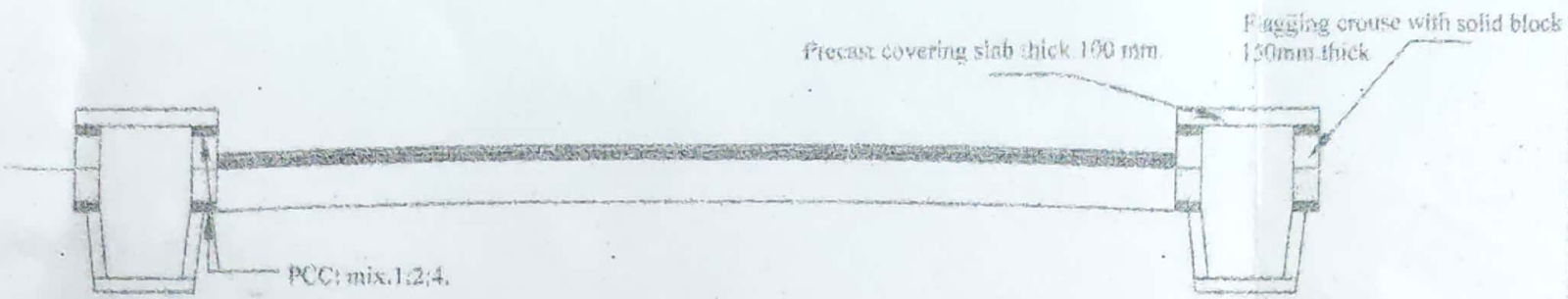
Name of work: Improvements to Roads and Drains at Canara Bank Layout Main Road and Cross Roads and Surrounding areas in Ward No. 09 (Vidyaranyapura).




Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97




CROSS SECTION OF SOLID BLOCK FLAGGING COURCE OVER B S SLAB DRAIN.

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97